

WHAT IS CLAIMED IS:

1. A method for ultrasonically splicing together overlapping ends of first and second lengths of photographic film strips of common film strip width with a film splicer employing a stationary elongated ultrasonic horn positioned on one side of the overlapping film strip ends in the width direction and a relatively movable anvil positioned on the opposite side of the overlapping film strip ends which traverses across the overlapping film ends by sliding or rolling in the length direction of the horn while the horn is ultrasonically vibrated and which provides pressure to the overlapping film ends while traversing across the overlapping film ends such that ultrasonic energy from the horn is transferred to the overlapping film ends effecting an ultrasonic weld between such film ends, wherein one of the first and second lengths of photographic film strips comprises an acetate based film strip and the other of the first and second lengths of photographic film strips comprises an acetate based film strip or a polyester based film strip, and wherein the product of the anvil pressure and anvil traverse rate is less than 6.0 kg.mm/sec when the anvil is slid across the overlapping film ends and less than 3.5 kg.mm/sec when the anvil is rolled across the overlapping film ends.

2. The method of claim 1, wherein the anvil is slid across the overlapping film ends and wherein the product of the anvil pressure and anvil traverse rate is less than 5.0 kg.mm/sec.

3. The method of claim 2, wherein the anvil pressure is less than 1.8 kg and the anvil traverse rate is less than or equal to 4.4 mm/sec.

4. The method of claim 3, wherein the anvil pressure is about 1.1 kg.

5. The method of claim 1, wherein the anvil is rolled across the overlapping film ends.

6. The method of claim 5, wherein the product of the anvil pressure and anvil traverse rate is less than 3.0 kg.mm/sec.
7. The method of claim 5, wherein the anvil pressure is less than 0.9 kg and the anvil traverse rate is less than or equal to 4.4 mm/sec.
8. The method of claim 7, wherein the anvil pressure is less than or equal to about 0.7 kg.
9. The method of claim 7, wherein the anvil traverse rate is less than or equal to 3.5 mm/sec.
10. The method of claim 5, wherein the anvil pressure is within the range of 0.6 to 0.8 kg and the anvil traverse rate is within the range of from about 2.5 to 4.4 mm/sec.
11. The method of claim 10, wherein the anvil traverse time is within the range of from about 2.5 to 3.5 mm/sec.
12. The method of claim 1, wherein one of the first and second lengths of photographic film strips comprises an acetate based film strip and the other of the first and second lengths of photographic film strips comprises a polyester based film strip.